## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004227

A. CLASSIFIC Int.Cl <sup>7</sup>	CATION OF SUBJECT MATTER 7 G09F9/30, H05B33/12, 33/02, 33	3/14	
According to Inte	ternational Patent Classification (IPC) or to both national	classification and IPC	
B. FIELDS SE			
Minimum docun Int . Cl	nentation searched (classification system followed by cla G09F9/00-40, H05B33/00-28	ssification symbols)	
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Jitsuyo Kokai Ji	itsuyo Shinan Koho 1971-2005 Tor	tsuyo Shinan Toroku Koho roku Jitsuyo Shinan Koho	1996-2005 1994-2005
Electronic data b	base consulted during the international search (name of d	lata base and, where practicable, search te	rms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Х	JP 11-345688 A (TDK Corp.), 14 December, 1999 (14.12.99), Par. Nos. [0028], [0031]; Fig (Family: none)		1-8
х	JP 05-190285 A (Fuji Electric 30 July, 1993 (30.07.93), Par. No. [0012] (Family: none)	c Co., Ltd.),	1-8
A	& WO 9834437 A1 & DE	6344712 B1	1-8
× Further do	ocuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  A document defining the general state of the art which is not considered to be of particular relevance  E earlier application or patent but published on or after the international filing date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		<ul> <li>T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> </ul>	
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
Date of the actual completion of the international search 11 April, 2005 (11.04.05)		Date of mailing of the international sear 26 April, 2005 (26	rch report . 04 . 05 )
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No	İ	Telephone No.	

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A Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 167044/1986(Laid-open No. 72896/1988) (Nippon Seiki Co., Ltd.), 16 May, 1988 (16.05.88), Page 6, line 10 to page 7, line 7 (Family: none)  Y JP 11-329743 A (Stanley Electric Co., Ltd.), 30 November, 1999 (30.11.99), Par. No. (0040) (Family: none)  Y JP 8-54832 A (Nippondenso Co., Ltd.), 27 February, 1996 (27.02.96), Claim 8 (Family: none)	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
30 November, 1999 (30.11.99), Par. No. [0040] (Family: none)  y		annexed to the request of Japanese Utility Model Application No. 167044/1986(Laid-open No. 72896/1988) (Nippon Seiki Co., Ltd.), 16 May, 1988 (16.05.88), Page 6, line 10 to page 7, line 7	1-8
27 February, 1996 (27.02.96), Claim 8	Υ.	30 November, 1999 (30.11.99), Par. No. [0040]	4-6
	Y	27 February, 1996 (27.02.96), Claim 8	4-6